



Fluid Casein Digest Soy Lecithin-Polysorbate 20 Medium (Twin pack)

MU117

Fluid Casein Digest Soy Lecithin-Polysorbate 20 Medium is recommended for sanitary examination of surfaces and microbial limit tests as per United States Pharmacopoeia.

Composition**

Ingredients	Gms / Litre
Part A	-
Pancreatic digest of casein	20.000
Soy lecithin	5.000
Part B	-
Polysorbate 20	40.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 25 grams of Part A in 960 ml purified/distilled water. Heat if necessary to dissolve the medium completely. Add 40 ml of Part B. Mix well and dispense into tubes or flasks or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Fluid Casein Digest Soy Lecithin-Polysorbate 20 Medium is recommended for sanitary examination of surfaces (1). Weber and Black had described the importance of a highly nutritional medium containing the neutralizing agents for quaternary ammonium compounds (2, 3).

The medium contains pancreatic digest of casein which provide the necessary nutrients for the growth of the organisms. Soy lecithin neutralizes the quaternary ammonium compounds while polysorbate 20 neutralizes phenolic disinfectants, hexachlorophene and formalin (4).

This medium is also recommended by NASA for the microbiological sampling of environmental surfaces sanitized with quaternary ammonium compounds (5).

Quality Control

Appearance

Part A : Cream to yellow homogeneous free flowing powder Part B : Colourless to yellow viscous liquid

Colour and Clarity of Prepared medium

Yellow coloured clear solution.

Growth Promotion Test

In Accordance with the harmonized method of USP.

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours (for fungal species incubate at 25-30°C for 24-48 hrs).

Cultural Response

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant
<i>Bacillus subtilis</i> ATCC 6633	50-100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
<i>Escherichia coli</i> ATCC 8739	50-100	good-luxuriant

Please refer disclaimer Overleaf.

<i>Staphylococcus aureus</i> ATCC 29737	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 6538	50-100	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. United States Pharmacopoeia, 2009, U.S. Pharmacopoeial Convention, Inc., Rockville, MD.
2. Weber and Black, 1948, Soap and Sanitary Chemicals, 24:134.
3. Weber and Black, 1948, Am. J. Public Health, 38:1405.
4. Favero (chm.), 1967, Microbiological Sampling of Surfaces, Biological Contamination Control Committee, American Asso. for Contamination Control.
5. National Aeronautics and Space Administration, 1966, Standard Procedures for the Microbiological Examination of Space Hardware.

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